

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
 Art Unit: _____ Phone Number 30 _____ Serial Number: _____
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL.

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>P. Schreiber</u>	NA Sequence (#) <u>2</u>	STN _____
Searcher Phone #: <u>272-3526</u>	AA Sequence (#) _____	Dialog _____
Searcher Location: <u>Ransom EOI A61</u>	Structure (#) _____	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>4/2</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>14</u>	Fulltext _____	Sequence Systems <u>Compukey</u>
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>6</u>	Other _____	Other (specify) _____

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 1, 2004, 10:45:11 ; Search time 38.4872 Seconds
(without alignments)
273.963 Million cell updates/sec

Title: US-09-520-538-16

Perfect score: 19
Sequence: 1 ccgcgatgcatcatttg 19

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA:
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/6CTUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	15	78.9	275	4	US-09-313-294A-2133
C 2	14.8	77.9	853	4	US-08-858-207A-112
C 3	14.8	77.9	1920	4	US-09-543-681A-1976
C 4	14.8	77.9	8898	4	US-08-961-527-69
C 5	14.4	75.8	21	4	US-09-501-612A-24
C 6	14.4	75.8	519	4	US-08-936-165A-50
C 7	14.4	75.8	852	4	US-08-956-171E-763
C 8	14.4	75.8	1893	4	US-08-956-171E-155
C 9	14.4	75.8	3294	3	US-08-409-995-1
C 10	14.4	75.8	3294	3	US-08-685-467-1
C 11	14.4	75.8	3294	3	US-08-913-942-1
C 12	14.4	75.8	3294	3	US-09-268-347-43
C 13	14.4	75.8	3300	4	US-09-268-247-31
C 14	14.4	75.8	3494	4	US-09-501-612A-1
C 15	14.4	75.8	1230025	4	US-09-198-452A-1
C 16	14.2	74.7	766	3	US-08-818-112-1
C 17	14.2	74.7	766	4	US-08-818-111-1
C 18	14.2	74.7	766	4	US-09-056-556-1
C 19	14.2	74.7	766	4	US-09-072-596-1
C 20	14.2	74.7	766	4	US-09-072-567-1
C 21	14.2	74.7	903	4	US-09-252-991A-7376
C 22	14.2	74.7	926	4	US-09-540-236-1131
C 23	14.2	74.7	1461	4	US-09-335-586-2
C 24	14.2	74.7	1749	4	US-09-721-870-178
C 25	14.2	74.7	2355	4	US-09-543-681A-3270
C 26	14.2	74.7	7876	1	US-08-225-480-1
C 27	14.2	74.7	7876	4	US-09-118-445-1

C 28	14.2	74.7	7876	5	PCT-US93-08115-1	Sequence 1, Appli
C 29	14.2	74.7	33778	4	US-09-596-002-19	Sequence 19, Appli
C 30	14.2	74.7	4403765	3	US-09-103-840A-2	Sequence 2, Appli
C 31	14.2	74.7	4403765	3	US-09-103-840A-2	Sequence 1, Appli
C 32	14.2	74.7	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C 33	14.2	74.7	4411529	3	US-09-103-840A-1	Sequence 1, Appli
C 34	14	73.7	2742	4	US-09-107-532A-613	Sequence 613, Appli
C 35	14	73.7	40090	4	US-09-820-004-3	Sequence 3, Appli
C 36	13.8	72.6	141	4	US-09-445-388A-9	Sequence 9, Appli
C 37	13.8	72.6	441	4	US-09-621-976-18101	Sequence 18101, A
C 38	13.8	72.6	459	4	US-09-621-976-18106	Sequence 18106, A
C 39	13.8	72.6	916	4	US-09-247-155-134	Sequence 134, App
C 40	13.8	72.6	1086	4	US-09-134-000C-1031	Sequence 1031, Ap
C 41	13.8	72.6	1220	3	US-09-116-032-2	Sequence 2, Appli
C 42	13.8	72.6	1227	6	5474928-1	Sequence 134, Appli
C 43	13.8	72.6	1359	4	US-09-489-039A-49	Sequence 49, Appli
C 44	13.8	72.6	1381	4	US-08-936-165A-225	Sequence 225, App
C 45	13.8	72.6	1536	3	US-09-352-990-17	Sequence 17, Appli

ALIGNMENTS

RESULT 1
US-09-313-294A-2133/c
; Sequence 2133, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313,294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL Program
; SEQ ID NO 2133
; LENGTH: 275
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Inocyte ID No. 6476212 700552137H1
US-09-313-294A-2133

Query Match 78.9%; Score 15; DB 4; Length 275;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TCGATTGATTCATTGG 18
Db 138 TCGATTGATTCATTGG 124

RESULT 2
US-08-858-207A-112/c
; Sequence 112, Application US/08858207A
; Patent No. 6348328
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; APPLICANT: Hodgson, John
; APPLICANT: Knowles, David
; APPLICANT: Nicholas, Richard
; APPLICANT: Stodola, Robert
; TITLE OF INVENTION: No. 6348328el Compounds
; NUMBER OF SEQUENCES: 552
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA

ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/858,207A
FILING DATE: 09-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/017670
FILING DATE: 14-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmli, Edward R
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P50475
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 112:
SEQUENCE CHARACTERISTICS:
LENGTH: 853 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-858-207A-112

Query Match 77.9%; Score 14.8; DB 4; Length 853;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCGTCGATTGATCATTTG 18
Db 361 CCGTCGATTGATCATTTG 344

RESULT 3
US-09-543-681A-1976/c
Sequence 1976, Application US/09543681A
Patent No. 6605709
GENERAL INFORMATION:
APPLICANT: GARY BRETON
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PROTEUS MIRABILIS
FILE REFERENCE: 2709,1002-001
CURRENT APPLICATION NUMBER: US/09/543,681A
CURRENT FILING DATE: 2000-04-05
PRIOR APPLICATION NUMBER: US 60/128,706
PRIOR FILING DATE: 1999-04-09
NUMBER OF SEQ ID NOS: 8344
SEQ ID NO 1976
LENGTH: 1920
TYPE: DNA
ORGANISM: Proteus mirabilis
US-09-543-681A-1976

Query Match 77.9%; Score 14.8; DB 4; Length 1920;
Best Local Similarity 88.9%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCGTCGATTGATCATTTG 18
Db 993 CCGTCGATTGATCATTTG 976

RESULT 4
US-08-961-527-69
Sequence 69, Application US/08961527
Patent No. 6420135
GENERAL INFORMATION:
APPLICANT: Charles Kunsch

TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
NUMBER OF SEQUENCES: 391
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,527
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB340P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 69:
SEQUENCE CHARACTERISTICS:
LENGTH: 8898 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-961-527-69

Query Match 77.9%; Score 14.8; DB 4; Length 8898;
Best Local Similarity 88.9%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCGTCGATTGATCATTTG 18
Db 5002 CCGTCGATTGATCATTTG 5019

RESULT 5
US-09-501-612A-24
Sequence 24, Application US/09501612A
Patent No. 6544765
GENERAL INFORMATION:
APPLICANT: Hjort, Carsten M.
TITLE OF INVENTION: Oxalacetate Hydrolyase Deficient Fungal Host Cells
FILE REFERENCE: 5789,200-US
CURRENT APPLICATION NUMBER: US/09/501,612A
CURRENT FILING DATE: 2000-02-10
NUMBER OF SEQ ID NOS: 33
SOFTWARE: PatentIn version 3.1
SEQ ID NO 24
LENGTH: 21
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Primer
US-09-501-612A-24

Query Match 75.8%; Score 14.4; DB 4; Length 21;
Best Local Similarity 93.8%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 CCGTCGATTGATCATTT 17
Db 6 CCGTCGATTGATCATTT 21

RESULT 6
US-08-936-165A-50/c
Sequence 50, Application US/08936165A
Patent No. 6348582
GENERAL INFORMATION:
APPLICANT: Black, Michael
APPLICANT: Burnham, Martin
APPLICANT: Hodson, John
APPLICANT: Knowles, David
APPLICANT: Lometto, Michael
APPLICANT: Nicholas, Richard
APPLICANT: Pratt, Julie
APPLICANT: Reichard, Richard
APPLICANT: Rosenberg, Martin
APPLICANT: Ward, Judith
TITLE OF INVENTION: No. 6348582e1 Prokaryotic Polynucleotides,
TITLE OF INVENTION: Polypeptides and Their Uses
NUMBER OF SEQUENCES: 534
CORRESPONDENCE ADDRESS:
ADDRESSEE: Smithkline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406-0939
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/936,165A
FILING DATE: 24-SEP-1997
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/027,032
FILING DATE: 24-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Gimmè, Edward R.
REGISTRATION NUMBER: 38,891
REFERENCE/DOCKET NUMBER: P50549
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-4478
TELEFAX: 610-270-5090
TELEX:
INFORMATION FOR SEQ ID NO: 50:
SEQUENCE CHARACTERISTICS:
LENGTH: 519 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
US-08-936-165A-50
Query Match 75.8%; Score 14.4; DB 4; Length 519;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

3 GTGATGATGATTTG 18
DB 23 GTGATGATGATTTG 38
RESULT 8
US-08-956-171E-155
Sequence 155, Application US/08956171E
Patent No. 6593114
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
Gill H. Choi
Patrick S. Dillon
Craig A. Rosen
Steven C. Barash
Michael R. Fannon
TITLE OF INVENTION: Staphylococcus aureus Polynucleotides and Sequences
NUMBER OF SEQUENCES: 5256
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
Query Match 75.8%; Score 14.4; DB 4; Length 852;
Best Local Similarity 93.8%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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; COMPUTER: HP Vectra 486/33
; OPERATING SYSTEM: MSDOS version 6.2
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/956,171E
; FILING DATE: 20-Oct-1997
; CLASSIFICATION: <unknown>
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 60/009,861
; FILING DATE: January 5, 1996
; APPLICATION NUMBER: 08/781,986
; FILING DATE: January 3, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mark J. Hyman
; REGISTRATION NUMBER: 46,789
; REFERENCE/DOCKET NUMBER: PB248P1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (240) 314-1224
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 155:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1893 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-956-171E-155
; SEQUENCE DESCRIPTION: SEQ ID NO: 155:

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Query Match          75.8%; Score 14.4; DB 4; Length 1893;
Best Local Similarity 93.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 2 CGTCATGATCATTT 17
Db 1578 CGTCATGATCATTT 1593

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RESULT 9
US-08-409-995-1/c
; Sequence 1, Application US/08409995
; Patent No. 5646259
; GENERAL INFORMATION:
; APPLICANT: Barenkamp, Stephen I.
; TITLE OF INVENTION: St. Gene III, Joseph W.
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/409,995
; FILING DATE: 24-MAR-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin M.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-61053/RFT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEEX: 910 277299
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3294 base pairs

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; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; US-08-409-995-1

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Query Match          75.8%; Score 14.4; DB 1; Length 3294;
Best Local Similarity 93.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 4 TCGATTGATCATTTGG 19
Db 2905 TCGATTGATCATTTGG 2890

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RESULT 10
US-08-685-467-1/c
; Sequence 1, Application US/08685467
; Patent No. 606059
; GENERAL INFORMATION:
; APPLICANT: St. Gene III, Joseph W.
; TITLE OF INVENTION: Barenkamp, Stephen J.
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hohbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/685,467
; FILING DATE: 22-JUL-1996
; CLASSIFICATION: 424
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/409,995
; FILING DATE: 24-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin M.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-61053-2/RFT/RMS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEEX: 910 277299
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3294 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: unknown
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; US-08-685-467-1

```

```

Query Match          75.8%; Score 14.4; DB 3; Length 3294;
Best Local Similarity 93.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 4 TCGATTGATCATTTGG 19
Db 2905 TCGATTGATCATTTGG 2890

```

```

RESULT 11
US-08-913-942-1/c
; Sequence 1, Application US/08913942
; Patent No. 6200578
; GENERAL INFORMATION:

```

APPLICANT: St. Geme, Joseph
APPLICANT: Barenkamp, Stephen J.
TITLE OF INVENTION: HAEMOPHILUS ADHESION PROTEINS
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESS:
ADDRESSER: Flehr Hohbach Test Albritton & Herbert LLP
STREET: Four Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: United States
ZIP: 94111-4187
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/08/913,942
APPLICATION NUMBER: US/08/913,942
FILING DATE: 29-DEC-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/409,995
FILING DATE: 24-MAR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/4031
FILING DATE: 22-MAR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Vance, Dolly A.
REGISTRATION NUMBER: 39,054
REFERENCE/DOCKET NUMBER: A-61053-1-RTT/RMS/DAV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 781-1989
TELEFAX: (415) 398-3249
TELEX: 910 277299
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3294 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA
US-08-913-942-1

Query Match 75.8%; Score 14.4; DB 3; Length 3294;
Best Local Similarity 93.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCGATTGATCATTTGG 19
|||||
DB 2905 TTGATTGATCATTTGG 2890

RESULT 12
US-09-268-347-43/C
Sequence 43, Application US/09268347
Patent No. 6335182
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M.
TITLE OF INVENTION: RECOMBINANT HAEMOPHILUS INFLUENZAE ADHESIN PROTEINS
FILE REFERENCE: 1038-860
CURRENT APPLICATION NUMBER: US/09/268,347
CURRENT FILING DATE: 1999-03-16
NUMBER OF SEQ ID NOS: 54
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 43
LENGTH: 3294
TYPE: DNA
ORGANISM: Haemophilus influenzae
US-09-268-347-43

Query Match 75.8%; Score 14.4; DB 4; Length 3294;
Best Local Similarity 93.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCGATTGATCATTTGG 19
|||||
DB 2905 TTGATTGATCATTTGG 2890

RESULT 13
US-09-268-347-31/C
Sequence 31, Application US/09268347
Patent No. 6335182
GENERAL INFORMATION:
APPLICANT: Loosmore, Sheena M.
TITLE OF INVENTION: RECOMBINANT HAEMOPHILUS INFLUENZAE ADHESIN PROTEINS
FILE REFERENCE: 1038-860
CURRENT APPLICATION NUMBER: US/09/268,347
CURRENT FILING DATE: 1999-03-16
NUMBER OF SEQ ID NOS: 54
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 31
LENGTH: 3300
TYPE: DNA
ORGANISM: Haemophilus influenzae
US-09-268-347-31

Query Match 75.8%; Score 14.4; DB 4; Length 3300;
Best Local Similarity 93.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCGATTGATCATTTGG 19
|||||
DB 2893 TTGATTGATCATTTGG 2878

RESULT 14
US-09-501-612A-1
Sequence 1, Application US/09501612A
Patent No. 6544765
GENERAL INFORMATION:
APPLICANT: Hjort, Carsten M.
TITLE OF INVENTION: Oxalacetate Hydrolyase Deficient Fungal Host Cells
FILE REFERENCE: 5789,200-US
CURRENT APPLICATION NUMBER: US/09/501,612A
CURRENT FILING DATE: 2000-02-10
NUMBER OF SEQ ID NOS: 33
SOFTWARE: Patentin Version 3.1
SEQ ID NO 1
LENGTH: 3494
TYPE: DNA
ORGANISM: Aspergillus niger
FEATURE:
NAME/KEY: Misc.feature
LOCATION: (3370)..(3370)
OTHER INFORMATION: n denotes a, g, c, or t
NAME/KEY: CDS
LOCATION: (1157)..(1411)
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NAME/KEY: Initon
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NAME/KEY: CDS
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OTHER INFORMATION:
NAME/KEY: Initon
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NAME/KEY: CDS
LOCATION: (1764)..(2383)
OTHER INFORMATION:
US-09-501-612A-1

Query Match 75.8%; Score 14.4; DB 4; Length 3494;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;

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Matches 15, Conservative 0, Mismatches 1, Indels 0, Gaps 0,
Qy 2 CGTCGATTCATTCATT 17
Db 712 CGTCGATTCATTCATT 727

RESULT 15
US-09-198-452A-1
; Sequence 1, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments
; TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, prevention
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
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; ORGANISM: Chlamydia pneumoniae
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Query Match 75.8%; Score 14.4; DB 4; Length 1230025;
 Best Local Similarity 93.8%; Pred. No. 2.4e+02;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCGATTGATCATTTGG 19
 Db 98696 TTGATTGATCATTTGG 98711

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OM nucleic - nucleic search, using sw model

Run on: April 1, 2004, 12:48:52 ; Search time 139.333 Seconds
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Title: US-09-520-538-16

Perfect score: 19

Sequence: 1 ccgcgcattgcatcttgg 19

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Searched: 2465228 seqs, 1869859620 residues

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Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysts of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	19	100.0	19	US-09-520-538-16	Sequence 16, Appl
2	15.8	83.2	1332	US-08-910-386A-12	Sequence 12, Appl
3	15.8	83.2	1873	US-10-369-493-26085	Sequence 26085, A
4	15.4	81.1	143068	US-09-967-768A-316	Sequence 316, App
5	15.4	81.1	1601042	US-10-027-632-559064	Sequence 559064, A
6	15	78.9	235	US-10-398-221-3814	Sequence 3814, Ap
7	15	78.9	5563	US-10-027-632-174581	Sequence 174581
8	15	78.9	713059	US-10-027-632-174763	Sequence 174763
9	15	78.9	2940917	US-10-424-599-11595	Sequence 11595, A
10	14.8	77.9	381	US-09-864-408A-7871	Sequence 7871, A
11	14.8	77.9	396	US-10-027-632-54944	Sequence 54944, A
12	14.8	77.9	648	US-10-027-632-313387	Sequence 313387
13	14.8	77.9	669	US-10-027-632-689	Sequence 689, App
14	14.8	77.9	1032	US-10-369-493-32752	Sequence 32752, A
15	14.8	77.9	1032	US-10-369-493-32752	Sequence 32752, A

16	14.8	77.9	1139	US-10-425-114-36032	Sequence 36032, A
17	14.8	77.9	1146	US-09-738-626-3061	Sequence 3061, Ap
18	14.8	77.9	1170	US-09-746-660A-79	Sequence 79, Appl
19	14.8	77.9	1233	US-10-369-493-36091	Sequence 36091, A
20	14.8	77.9	1875	US-10-282-122A-32822	Sequence 32822, A
21	14.8	77.9	2298	US-10-398-221-1889	Sequence 1889, Ap
22	14.8	77.9	2628	US-09-919-831-1	Sequence 1, Appl1
23	14.8	77.9	5093	US-09-949-029-110	Sequence 109, App
24	14.8	77.9	6751	US-09-949-029-109	Sequence 69, Appl
25	14.8	77.9	8898	US-10-158-844-69	Sequence 69, Appl
26	14.8	77.9	3309400	US-09-738-626-1	Sequence 24, Appl1
27	14.4	75.8	21	US-10-336-491-24	Sequence 840, App
28	14.4	75.8	272	US-10-085-783A-840	Sequence 840, App
29	14.4	75.8	272	US-10-242-935A-840	Sequence 58, Appl
30	14.4	75.8	299	US-09-910-664-58	Sequence 58, Appl
31	14.4	75.8	316	US-10-085-783A-55876	Sequence 55876, A
32	14.4	75.8	316	US-10-242-935A-55876	Sequence 55876, A
33	14.4	75.8	456	US-09-974-300-4309	Sequence 4309, Ap
34	14.4	75.8	519	US-09-939-980-50	Sequence 50, Appl
35	14.4	75.8	582	US-10-027-632-190553	Sequence 190553
36	14.4	75.8	582	US-10-027-632-217359	Sequence 217359
37	14.4	75.8	706	US-10-027-632-146373	Sequence 146373
38	14.4	75.8	795	US-10-425-114-20145	Sequence 20145, A
39	14.4	75.8	852	US-08-781-986A-763	Sequence 763, App
40	14.4	75.8	852	US-09-738-624-763	Sequence 763, App
41	14.4	75.8	942	US-09-738-624-763	Sequence 320, App
42	14.4	75.8	1314	US-09-815-242-4185	Sequence 4185, Ap
43	14.4	75.8	1338	US-09-815-242-4185	Sequence 8488, Ap
44	14.4	75.8	1338	US-10-282-122A-8166	Sequence 8166, Ap
45	14.4	75.8	1824	US-10-369-493-32855	Sequence 32855, A

ALIGNMENTS

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RESULT 1
US-09-520-538-16
Sequence 16, Application US/09520538
Patent No. US2002016836A1
GENERAL INFORMATION:
APPLICANT: The Regents of the University of California
TITLE OF INVENTION: Detection of Phenols Using Engineered Bacteria
FILE REFERENCE: S-91, 714
CURRENT APPLICATION NUMBER: US/09/520,538
CURRENT FILING DATE: 2000-03-08
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn version 3.0
SEQ ID NO 16
LENGTH: 19
TYPE: DNA
ORGANISM: Pseudomonas sp. CF600
US-09-520-538-16
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Query Match 100.0%; Score 19; DB 9; Length 19;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 CCCTGCATTCATCTTGG 19
Db 1 CCCTGCATTCATCTTGG 19

RESULT 2
US-08-910-386A-12
Sequence 12, Application US/08910386A
Publication No. US20020092041A1
GENERAL INFORMATION:
APPLICANT: Ronald, Pamela C.
APPLICANT: Wang, Guo-Liang
APPLICANT: Song, Wen-Yuang
APPLICANT: Hulbert, Scott
APPLICANT: Richter, Todd
```

TITLE OF INVENTION: Procedures and Materials for Conferring
TITLE OF INVENTION: Disease Resistance in Plants
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,386A
FILING DATE: 13-AUG-1997
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Bastian, Kevin L.
REGISTRATION NUMBER: 34,774
REFERENCE/DOCKET NUMBER: 023070-058950US
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 1332 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Oryza longistaminata
STRAIN: IRBB21
POSITION IN GENOME:
CHROMOSOME/SEGMENT: 11
MAP POSITION: 11q, RG103
FEATURE:
NAME/KEY: -
LOCATION: 1..1332
OTHER INFORMATION: /note="3' flanking sequence of Xa21
OTHER INFORMATION: gene family member F"
US-08-910-386A-12
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Best Local Similarity 89.5%; Pred. No. 4.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db 2 CCGTCGATTCATTCATTGG 20
RESULT 3
US-10-369-493-26085/c
Sequence 26085, Application US/10369493
Publication No. US20030233675A1
GENERAL INFORMATION:
APPLICANT: Cao, Yongwei
APPLICANT: Hinkle, Gregory J.
APPLICANT: Slater, Steven C.
APPLICANT: Goldman, Barry S.
APPLICANT: Chen, Xianfeng
TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
FILE REFERENCE: 38-10(52052)B
CURRENT APPLICATION NUMBER: US/10/369,493
CURRENT FILING DATE: 2003-02-28
PRIOR APPLICATION NUMBER: US 60/360,039
PRIOR FILING DATE: 2002-02-21
NUMBER OF SEQ ID NOS: 47374

SEQ ID NO 26085
LENGTH: 1873
TYPE: DNA
ORGANISM: Schizosaccharomyces pombe
US-10-369-493-26085
Query Match 83.2%; Score 15.8; DB 15; Length 1873;
Best Local Similarity 89.5%; Pred. No. 4.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CCGTCGATTCATTCATTGG 19
Db 224 CCGTCGATTCATTCATTGG 206
RESULT 4
US-09-967-768A-316
Sequence 316, Application US/09967768A
Patent No. US20020150877A1
GENERAL INFORMATION:
APPLICANT: Augustus, Meena
TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signatu
TITLE OF INVENTION: Sets
FILE REFERENCE: 689290-72
CURRENT APPLICATION NUMBER: US/09/967,768A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: US/60/236,109
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US/60/236,034
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: US/60/236,111
PRIOR FILING DATE: 2000-09-28
NUMBER OF SEQ ID NOS: 325
SOFTWARE: PatentIn version 3.0
SEQ ID NO 316
LENGTH: 143068
TYPE: DNA
ORGANISM: Homo sapiens
US-09-967-768A-316
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Best Local Similarity 94.1%; Pred. No. 1.6e+03;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
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Db 21265 GTCGATTCATTCATTGG 21281
RESULT 5
US-10-027-632-59064/c
Sequence 59064, Application US/10027632
Publication No. US20030204075A9
GENERAL INFORMATION:
APPLICANT: Wang, David G.
TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
TITLE OF INVENTION: Polymorphisms in the Human Genome
FILE REFERENCE: 108827.129
CURRENT APPLICATION NUMBER: US/10/027,632
CURRENT FILING DATE: 2002-04-30
PRIOR APPLICATION NUMBER: US 60/218,006
PRIOR FILING DATE: 2000-07-12
PRIOR APPLICATION NUMBER: US 60/198,676
PRIOR FILING DATE: 2000-04-20
PRIOR APPLICATION NUMBER: US 60/193,483
PRIOR FILING DATE: 2000-03-29
PRIOR APPLICATION NUMBER: US 60/185,218
PRIOR FILING DATE: 2000-02-24
PRIOR APPLICATION NUMBER: US 60/167,363
PRIOR FILING DATE: 1999-11-23
PRIOR APPLICATION NUMBER: US 60/156,358
PRIOR FILING DATE: 1999-09-28
PRIOR APPLICATION NUMBER: US 60/146,002

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; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 59064
; LENGTH: 1601042
; TYPE: DNA
; ORGANISM: Human
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; LOCATION: (1)..(1601042)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-59064

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Db      687632 CCGCGATTCATTCATTCATTGG 687614

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RESULT 6
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; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 131971
; LENGTH: 235
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_90177C.1
US-10-424-599-131971

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Query Match      78.9%; Score 15; DB 12; Length 235;
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; APPLICANT: KONST, Frederik
; APPLICANT: GLASER, Philippe
; TITLE OF INVENTION: Listeria innocua, genome and applications
; FILE REFERENCE: 344 702 - US
; CURRENT APPLICATION NUMBER: US/10/398,221
; CURRENT FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: PCT/FR 01/03 061
; PRIOR FILING DATE: 2001-10-04
; PRIOR APPLICATION NUMBER: FR 00/12 697
; PRIOR FILING DATE: 2000-10-04
; NUMBER OF SEQ ID NOS: 4025
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 3814
; LENGTH: 5563

```

```

; TYPE: DNA
; ORGANISM: Listeria monocytogenes 4b
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(end)
; OTHER INFORMATION: n can be any nucleotide: a,g,c or t/u
US-10-398-221-3814

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```

Query Match      78.9%; Score 15; DB 15; Length 5563;
Best Local Similarity 100.0%; Pred. No. 1.5e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      4 TCGATTGATTCATTGG 18
Db      1748 TCGATTGATTCATTGG 1762

```

```

RESULT 8
US-10-027-632-174581
; Sequence 174581, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 174581
; LENGTH: 713059
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(713059)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-174581

```

```

Query Match      78.9%; Score 15; DB 15; Length 713059;
Best Local Similarity 84.2%; Pred. No. 2.5e+03;
Matches 16; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      1 CCGTCGATTCATTCATTGG 19
Db      667865 BCGTCGATTCATTCATTGG 667883

```

```

RESULT 9
US-10-027-632-174763
; Sequence 174763, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632

```

```

; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 174763
; LENGTH: 2940917
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(2940917)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-174763
```

```

Query Match          78.9%; Score 15; DB 15; Length 2940917;
Best Local Similarity 100.0%; Pred. No. 1.2e+03;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      4 TCGATGATGATTTG 18
DB      780290 TCGATGATGATTTG 780304
```

```

RESULT 10
US-10-424-599-11595
; Sequence 11595, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
; APPLICANT: Cao Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCES: 38-21(53223)B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 11595
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT3847_110479C.1
US-10-424-599-11595
```

```

Query Match          77.9%; Score 14.8; DB 12; Length 381;
Best Local Similarity 88.9%; Pred. No. 1.2e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1 CCGTCGATGATTTG 18
DB      93 CCGTCGATGATTTG 110
```

```

RESULT 11
US-09-864-408A-7871/c
; Sequence 7871, Application US/09864408A
; Publication No. US20040009474A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Leach, Martin D.
; APPLICANT: Shinkets, Richard A.
; TITLE OF INVENTION: No. US20040009474A1 Human Polynucleotides and Polypeptides Encod
; FILE REFERENCE: 21402-012
; CURRENT APPLICATION NUMBER: US/09/864,408A
; CURRENT FILING DATE: 2001-05-24
; PRIOR APPLICATION NUMBER: 60/206,690
; PRIOR FILING DATE: 2000-05-24
; NUMBER OF SEQ ID NOS: 9068
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 7871
; LENGTH: 396
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (360)...(360)
; OTHER INFORMATION: Wherein n may be a, c, g or t
US-09-864-408A-7871
```

```

Query Match          77.9%; Score 14.8; DB 11; Length 396;
Best Local Similarity 88.9%; Pred. No. 1.2e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      1 CCGTCGATGATTTG 18
DB      41 CCGTCGATGATTTG 24
```

```

RESULT 12
US-10-027-632-54944
; Sequence 54944, Application US/10027632
; Publication No. US20030204075A9
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; TITLE OF INVENTION: Polymorphisms in the Human Genome
; FILE REFERENCE: 108827.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 54944
; LENGTH: 648
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(648)
; OTHER INFORMATION: n = A,T,C or G
US-10-027-632-54944
```

```

Query Match          77.9%; Score 14.8; DB 15; Length 648;
Best Local Similarity 88.9%; Pred. No. 1.3e+03;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```

QY      2 CGTCGATGATTTG 19
DB      424 CGTCGATGATTTG 441
```

RESULT 13

US-10-027-632-31387
 ; Sequence 31387, Application US/10027632
 ; Publication No. US20030204075A9
 ; GENERAL INFORMATION:

APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 TITLE OF INVENTION: Polymorphisms in the Human Genome
 FILE REFERENCE: 108827.129

CURRENT FILING DATE: 2002-04-30
 PRIOR FILING DATE: 2000-07-12

PRIOR FILING DATE: 2000-04-20
 PRIOR FILING DATE: 2000-03-29

PRIOR FILING DATE: 2000-02-24
 PRIOR FILING DATE: 1999-11-23

PRIOR FILING DATE: 1999-09-28
 PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 31387
 LENGTH: 648

TYPE: DNA
 ORGANISM: Human

NAME/KEY: misc_feature
 LOCATION: (1)...(648)

OTHER INFORMATION: n = A,T,C or G
 US-10-027-632-31387

Query Match 77.9%; Score 14.8; DB 15; Length 648;
 Best Local Similarity 88.9%; Pred. No. 1.3e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CCTCGATTGATCATTTGG 19
 Db 424 CCTCGATTGATCATTTGG 441

RESULT 14

US-10-027-632-689
 ; Sequence 689, Application US/10027632
 ; Publication No. US20030204075A9
 ; GENERAL INFORMATION:

APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 TITLE OF INVENTION: Polymorphisms in the Human Genome
 FILE REFERENCE: 108827.129

CURRENT FILING DATE: 2002-04-30
 PRIOR FILING DATE: 2000-07-12

PRIOR FILING DATE: 2000-04-20
 PRIOR FILING DATE: 2000-03-29

PRIOR FILING DATE: 2000-02-24
 PRIOR FILING DATE: 1999-11-23

PRIOR FILING DATE: 1999-09-28
 PRIOR FILING DATE: 1999-08-09

NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 31387
 LENGTH: 648

TYPE: DNA
 ORGANISM: Human

NAME/KEY: misc_feature
 LOCATION: (1)...(648)

OTHER INFORMATION: n = A,T,C or G
 US-10-027-632-689

NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FASTSEQ for Windows Version 4.0

SEQ ID NO 689
 LENGTH: 669

TYPE: DNA
 ORGANISM: Human

US-10-027-632-689

Query Match 77.9%; Score 14.8; DB 15; Length 669;
 Best Local Similarity 88.9%; Pred. No. 1.3e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 CCTCGATTGATCATTTGG 19
 Db 465 CCTCGATTGATCATTTGG 482

RESULT 15

US-10-369-493-32752
 ; Sequence 32752, Application US/10369493
 ; Publication No. US20030233675A1
 ; GENERAL INFORMATION:

APPLICANT: Cao, Yongwei
 APPLICANT: Hinkle, Gregory T.
 APPLICANT: Slater, Steven C.
 APPLICANT: Goldman, Barry S.

APPLICANT: Chen, Xianfeng
 TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF

TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
 FILE REFERENCE: 38-10(52052)B

CURRENT FILING DATE: 2003-02-28
 PRIOR FILING DATE: 2002-02-21

PRIOR FILING DATE: 2002-02-21
 NUMBER OF SEQ ID NOS: 47374

SEQ ID NO 32752
 LENGTH: 1032

TYPE: DNA
 ORGANISM: Chloroflexus aurantiacus

US-10-369-493-32752

Query Match 77.9%; Score 14.8; DB 15; Length 1032;
 Best Local Similarity 88.9%; Pred. No. 1.4e+03;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CCGCGATTGATCATTTGG 18
 Db 922 CCGCGATTGATCATTTGG 939

Search completed: April 1, 2004, 13:13:33
 Job time: 145.333 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 1, 2004, 10:45:11 ; Search time 40.5128 Seconds
(without alignments)
273.963 Million cell updates/sec

Title: US-09-520-538-17

Perfect score: 20

Sequence: 1 tgcacatcatcgcacac 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents NA: *
1: /cgn2_6/prodata/2/ina/5A.COMB.seq: *
2: /cgn2_6/prodata/2/ina/5B.COMB.seq: *
3: /cgn2_6/prodata/2/ina/6A.COMB.seq: *
4: /cgn2_6/prodata/2/ina/6B.COMB.seq: *
5: /cgn2_6/prodata/2/ina/ECTUS.COMB.seq: *
6: /cgn2_6/prodata/2/ina/backfillseq1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	16.4	82.0	1770	1 US-08-241-943-25	Sequence 25, Appl
C 2	16.4	82.0	1770	4 US-09-635-132-2	Sequence 2, Appl
C 3	16.4	82.0	2019	1 US-08-254-357-3	Sequence 3, Appl
C 4	16.4	82.0	4983	1 US-08-472-358-1	Sequence 1, Appl
C 5	16.4	82.0	4983	5 PCT-US92-05786A-1	Sequence 1, Appl
C 6	16.4	82.0	4984	1 US-08-687-806-1	Sequence 1, Appl
C 7	16.4	82.0	4984	4 US-09-635-132-1	Sequence 1, Appl
C 8	15.8	79.0	483	4 US-09-252-991A-103	Sequence 103, App
C 9	15.8	79.0	993	4 US-09-252-991A-99	Sequence 99, Appl
C 10	15.8	79.0	1065	4 US-09-252-991A-90	Sequence 90, Appl
C 11	15.8	79.0	2934	4 US-09-252-991A-84	Sequence 84, Appl
C 12	15.8	79.0	2936	4 US-09-453-702B-161	Sequence 161, App
C 13	15.8	79.0	6122	3 US-08-403-545-1	Sequence 1, Appl
C 14	15.8	79.0	6122	3 US-08-404-381-1	Sequence 1, Appl
C 15	15.2	76.0	582	4 US-09-134-000C-2052	Sequence 2052, Ap
C 16	15.2	76.0	695	3 US-08-998-416-964	Sequence 964, App
C 17	15.2	76.0	2260	4 US-09-221-017B-33	Sequence 33, Appl
C 18	14.8	74.0	262	4 US-09-313-294A-2338	Sequence 2338, Ap
C 19	14.8	74.0	870	4 US-09-540-236-556	Sequence 556, App
C 20	14.8	74.0	1212	4 US-09-543-681A-1205	Sequence 1205, Ap
C 21	14.8	74.0	1680	4 US-09-489-039A-5245	Sequence 5245, Ap
C 22	14.8	74.0	4605	4 US-09-221-017B-128	Sequence 128, App
C 23	14.8	74.0	24535	6 5428147-1	Patent No. 5428147
C 24	14.8	74.0	45613	4 US-09-596-602-22	Sequence 22, Appl
C 25	14.8	74.0	1664976	4 US-08-916-421B-1	Sequence 1, Appl
C 26	14.8	74.0	1830121	4 US-09-557-884-1	Sequence 1, Appl
C 27	14.8	74.0	1830121	4 US-09-643-990A-1	Sequence 1, Appl

C 28	14.4	72.0	615	3 US-08-549-515-3	Sequence 3, Appl
C 29	14.4	72.0	1284	3 US-08-989-510A-15	Sequence 15, Appl
C 30	14.4	72.0	1284	3 US-09-182-816-15	Sequence 15, Appl
C 31	14.4	72.0	1284	3 US-09-471-528-15	Sequence 35, Appl
C 32	14.4	72.0	1284	3 US-09-471-528-35	Sequence 35, Appl
C 33	14.4	72.0	1284	3 US-09-634-530-15	Sequence 35, Appl
C 34	14.4	72.0	1284	3 US-09-634-530-35	Sequence 35, Appl
C 35	14.4	72.0	1326	3 US-09-471-528-32	Sequence 32, Appl
C 36	14.4	72.0	1326	3 US-09-471-528-34	Sequence 32, Appl
C 37	14.4	72.0	1326	3 US-09-634-530-32	Sequence 32, Appl
C 38	14.4	72.0	1326	3 US-09-634-530-34	Sequence 32, Appl
C 39	14.4	72.0	1392	3 US-08-989-510A-10	Sequence 10, Appl
C 40	14.4	72.0	1392	3 US-08-989-510A-11	Sequence 11, Appl
C 41	14.4	72.0	1392	3 US-09-182-816-10	Sequence 10, Appl
C 42	14.4	72.0	1392	3 US-09-182-816-12	Sequence 12, Appl
C 43	14.4	72.0	1392	3 US-09-471-528-10	Sequence 10, Appl
C 44	14.4	72.0	1392	3 US-09-471-528-12	Sequence 12, Appl
C 45	14.4	72.0	1392	3 US-09-634-530-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-08-241-943-25/C
Sequence 25, Application US/08241943
Patent No. 5602321
GENERAL INFORMATION:
APPLICANT: John, Maliyakal E.
TITLE OF INVENTION: TRANSGENIC COTTON PLANTS
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESSES:
ADDRESS: Nicholas J. Seay, Charles & Brady
STREET: First Wisconsin Plaza, One South
STREET: P.O. Box 2113
CITY: Madison
STATE: WI
COUNTRY: USA
ZIP: 53701-2113
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/241,943
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: us/07/980,521
FILING DATE: 20-NOV-1992
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27,386
REFERENCE/DOCKET NUMBER: 11-229-9076-8
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 251-2484
TELEFAX: (608) 251-9166
INFORMATION FOR SEQ. ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 1770 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
HYPOTHETICAL: NO
PUBLICATION INFORMATION:
AUTHORS: PEOPLES
JOURNALS: SINSKEY
VOLUME: 264

PAGES: 15298-15303
DATE: 1989
US-08-241-943-25

Query Match 82.0%; Score 16.4; DB 1; Length 1770;
Best Local Similarity 94.4%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCCATCATATTGGCGCAG 20
DB 563 TCCATCATGTGGCGCAG 546

RESULT 2
US-09-635-132-2/c
Sequence 2, Application US/09635132
Patent No. 6620601
GENERAL INFORMATION:
APPLICANT: YAMAGUCHI, ISAMU
APPLICANT: NAKASHITA, HIDEO
APPLICANT: YOSHIOKA, KEIKO
APPLICANT: DOI, YOSHIOHARU
TITLE OF INVENTION: METHODS FOR TRANSFORMATION OF PLANTS, TRANSFORMED
TITLE OF INVENTION: PLANTS AND PROCESSES FOR PREPARATION OF POLYESTERS
FILE REFERENCE: 081356/0148
CURRENT APPLICATION NUMBER: US/09/635,132
CURRENT FILING DATE: 2000-08-09
PRIOR APPLICATION NUMBER: JP 11-225832
PRIOR FILING DATE: 1999-08-09
PRIOR APPLICATION NUMBER: JP 11-225839
PRIOR FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 18
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 1770
TYPE: DNA
ORGANISM: Ralstonia eutropha
US-09-635-132-2

Query Match 82.0%; Score 16.4; DB 4; Length 1770;
Best Local Similarity 94.4%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCCATCATATTGGCGCAG 20
DB 563 TCCATCATGTGGCGCAG 546

RESULT 3
US-08-254-357-3/c
Sequence 3, Application US/08254357
Patent No. 5610041
GENERAL INFORMATION:
APPLICANT: Christopher R. Somerville,
APPLICANT: Christiane Nawrath,
APPLICANT: Yves Poirier
TITLE OF INVENTION: Processes For Producing
TITLE OF INVENTION: Polyhydroxybutyrate and Related
TITLE OF INVENTION: Polyhydroxyalkanoates in the
TITLE OF INVENTION: Plastids of Higher Plants
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSER: Ian C. McLeod
STREET: 2190 Commons Parkway
CITY: Okemos
STATE: Michigan
COUNTRY: USA
ZIP: 48864
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette 5.25 inch, 360 kb
MEDIUM TYPE: storage
COMPUTER: Acer
OPERATING SYSTEM: MS-DOS (version 3.3)

SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/254,357
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/108,193 and 07/732,243
FILING DATE: August 17, 1993 and July 19, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Ian C. McLeod
REGISTRATION NUMBER: 20,931
REFERENCE/DOCKET NUMBER: MSU 4.1-222
TELECOMMUNICATION INFORMATION:
TELEPHONE: (517) 347-4100
TELEFAX: (517) 347-4103
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2019 Base Pairs
TYPE: Nucleic Acid
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE:
DESCRIPTION: Genomic DNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Alcaligenes eutrophus
IMMEDIATE SOURCE:
LIBRARY: Genomic

US-08-254-357-3

Query Match 82.0%; Score 16.4; DB 1; Length 2019;
Best Local Similarity 94.4%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCCATCATATTGGCGCAG 20
DB 812 TCCATCATGTGGCGCAG 795

RESULT 4
US-08-472-358-1/c
Sequence 1, Application US/08472358
Patent No. 5650555
GENERAL INFORMATION:
APPLICANT: Chris Somerville, Yves Poirier,
APPLICANT: Douglas Dennis
TITLE OF INVENTION: Transgenic Plant Materials
TITLE OF INVENTION: Producing Polyhydroxyalkanoates
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSER: Ian C. McLeod
STREET: 2190 Commons Parkway
CITY: Okemos
STATE: Michigan
COUNTRY: USA
ZIP: 48864
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette 5.25 inch, 360 kb
MEDIUM TYPE: storage
COMPUTER: IBM AT
OPERATING SYSTEM: MS-DOS (version 3.3)
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/472,358
FILING DATE: 07-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/732,243
FILING DATE: July 19, 1991
ATTORNEY/AGENT INFORMATION:
NAME: Ian C. McLeod
REGISTRATION NUMBER: 20,931

REFERENCE/DOCKET NUMBER: MSU 4.1-131
TELECOMMUNICATION INFORMATION:
TELEPHONE: (517) 347-4100
TELEFAX: (517) 347-4103
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4983 Base Pairs
TYPE: Nucleic Acid
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE:
DESCRIPTION: Genomic DNA
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE:
ORGANISM: Alcaligenes eutrophus
IMMEDIATE SOURCE:
LIBRARY: Genomic
US-08-472-358-1

Query Match 82.0%; Score 16.4; DB 1; Length 4983;
Best Local Similarity 94.4%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATCATATTTGGCGACG 20
DB 1407 TCATCATATTTGGCGACG 1390

RESULT 5

PCT-US92-05786A-1/c
Sequence 1, Application PC/US9205786A

GENERAL INFORMATION:

APPLICANT: Michigan State University
TITLE OF INVENTION: Transgenic Plant Materials
TITLE OF INVENTION: Producing Polyhydroxyalkanoates
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:

ADDRESSEE: T. David Reed,
ADDRESSEE: The Procter & Gamble Company
ADDRESSEE: Patent Division - International
STREET: 5299 Spring Grove Avenue
CITY: Cincinnati
STATE: Ohio
COUNTRY: USA
ZIP: 45217

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette 5.25 inch, 360 kb
MEDIUM TYPE: storage
COMPUTER: IBM AT

OPERATING SYSTEM: MS-DOS (version 3.3)
SOFTWARE: Wordperfect 5.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US92/05786A
FILING DATE: 19920713
FILING DATE: priority under the Paris Convention
FILING DATE: to the prior U.S. filing.

CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/732,243
FILING DATE: 19 July 1991
ATTORNEY/AGENT INFORMATION:

NAME: T. David Reed

REGISTRATION NUMBER: 32,931

REFERENCE/DOCKET NUMBER: 4638#

TELECOMMUNICATION INFORMATION:

TELEPHONE: (513) 627-7025

TELEFAX: (513) 627-6333

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 4983 Base Pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: Double

TOPOLOGY: Linear
MOLECULE TYPE:
DESCRIPTION: Genomic DNA
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE:
ORGANISM: Alcaligenes eutrophus
IMMEDIATE SOURCE:
LIBRARY: Genomic
PCT-US92-05786A-1

Query Match 82.0%; Score 16.4; DB 5; Length 4983;
Best Local Similarity 94.4%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATCATATTTGGCGACG 20
DB 1407 TCATCATATTTGGCGACG 1390

RESULT 6

US-08-687-806-1/c

Sequence 1, Application US/08687806
Patent No. 5811272

GENERAL INFORMATION:

APPLICANT: Snell, Kristi D.
APPLICANT: Hogan, Scott A.
APPLICANT: Sim, Sang Jun
APPLICANT: Sinskey, Anthony J.
APPLICANT: Rha, Chokyun
TITLE OF INVENTION: Method for Controlling Molecular Weight of
TITLE OF INVENTION: Polyhydroxyalkanoates
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:

ADDRESSEE: Patrea U. Pabst
STREET: 2800 One Atlantic Center, 1201 West Peachtree Street
CITY: Atlanta
STATE: Georgia
COUNTRY: USA
ZIP: 30309

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/687,806
FILING DATE: 11-JUL-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Patrea U.

REGISTRATION NUMBER: 31,284

REFERENCE/DOCKET NUMBER: mt 6867

TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-873-8794

TELEFAX: 404-873-8795

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 4984 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-687-806-1

Query Match 82.0%; Score 16.4; DB 1; Length 4984;
Best Local Similarity 94.4%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCATCATATTTGGCGACG 20
DB 1404 TCATCATATTTGGCGACG 1387

RESULT 7
US-09-635-132-1/c
; Sequence 1, Application US/09635132
; Patent No. 6620601
; GENERAL INFORMATION:
; APPLICANT: YAMAGUCHI, ISAMU
; APPLICANT: NAKASHITA, HIDEO
; APPLICANT: YOSHIOKA, KEIKO
; APPLICANT: DOI, YOSHIMARU
; TITLE OF INVENTION: METHODS FOR TRANSFORMATION OF PLANTS, TRANSFORMED
; TITLE OF INVENTION: PLANTS AND PROCESSES FOR PREPARATION OF POLYESTERS
; FILE REFERENCE: 081356/0148
; CURRENT APPLICATION NUMBER: US/09/635,132
; PRIOR FILING DATE: 2000-08-09
; PRIOR APPLICATION NUMBER: JP 11-225832
; PRIOR FILING DATE: 1999-08-09
; PRIOR APPLICATION NUMBER: JP 11-225839
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Patentia Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4984
; TYPE: DNA
; ORGANISM: Ralstonia eutrophia
US-09-635-132-1

Query Match 82.0%; Score 16.4; DB 4; Length 4984;
Best Local Similarity 94.4%; Pred. No. 24;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TTCATCATATTGGCGACG 20
DB 1404 TTCATCATATTGGCGACG 1387

RESULT 8
US-09-252-991A-103
; Sequence 103, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 103
; LENGTH: 483
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-103

Query Match 79.0%; Score 15.8; DB 4; Length 483;
Best Local Similarity 89.5%; Pred. No. 33;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GTCCATCATATTGGCGACG 20
DB 165 GTCCATCATATTGGCGACG 183

RESULT 9
US-09-252-991A-99
; Sequence 99, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 99
; LENGTH: 993
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-99

Query Match 79.0%; Score 15.8; DB 4; Length 993;
Best Local Similarity 89.5%; Pred. No. 37;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GTCCATCATATTGGCGACG 20
DB 574 GTCCATCATATTGGCGACG 592

RESULT 10
US-09-252-991A-90/c
; Sequence 90, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 90
; LENGTH: 1065
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-90

Query Match 79.0%; Score 15.8; DB 4; Length 1065;
Best Local Similarity 89.5%; Pred. No. 38;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GTCCATCATATTGGCGACG 20
DB 957 GTCCATCATATTGGCGACG 939

RESULT 11
US-09-252-991A-84/c
; Sequence 84, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 84

LENGTH: 2934
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-84

Query Match 79.0%; Score 15.8; DB 4; Length 2934;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GTTCATCATATTGGCGACG 20
|||||
Db 1180 GTTCATCATCTTGGCGACG 1162

RESULT 12
US-09-453-702B-161/C
Sequence 161, Application US/09453702B
Patent No. 6365723
GENERAL INFORMATION:
APPLICANT: Blatner, Frederick R.
Burland, Valerie
Perna, Nicole T.
Plunkett, Guy
Welch, Rod

TITLE OF INVENTION: No. 6365723el Sequences of E. coli O157
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Pinckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 8.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/453, 702B
FILING DATE: 03-Dec-1999
CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/110,955
FILING DATE: 04-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.95017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 251-5000
TELEFAX: (608) 251-9166

INFORMATION FOR SEQ ID NO: 161:
SEQUENCE CHARACTERISTICS:
LENGTH: 2936
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear

MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 161:
US-09-453-702B-161

Query Match 79.0%; Score 15.8; DB 4; Length 2936;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TGTCATCATATTGGCGAC 19
|||||
Db 2857 TGTCATCATCTTGGCGAC 2839

RESULT 13
US-08-403-545-1/C

Sequence 1, Application US/08403545
Patent No. 5656483
GENERAL INFORMATION:
APPLICANT: Sokatch, John R.
APPLICANT: Sykes, Pamela Joy
APPLICANT: Madhusudan, K. T.
TITLE OF INVENTION: Genes Encoding Operon and Promoter for
TITLE OF INVENTION: Branched Chain Keto Acid Dehydrogenase of Pseudomonas putida
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carolyn D. Moon
ADDRESS: Dunlap, Coding, Peterson and Lee
STREET: 9400 N. Broadway, Suite 420
CITY: Oklahoma City
STATE: Oklahoma
COUNTRY: USA
ZIP: 73114
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette 5.25 inch, 360 Kb Storage
COMPUTER: IBM AT
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Professional Write 2.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/403,545
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 7/603/781
APPLICATION NUMBER: 07/172,148
FILING DATE: 23-003-1988
ATTORNEY/AGENT INFORMATION:
NAME: Carolyn D. Moon
REGISTRATION NUMBER: 33,022
REFERENCE/DOCKET NUMBER: 5820.101
TELECOMMUNICATION INFORMATION:
TELEPHONE: Attorney, (405) 478-5344
TELEFAX: Attorney, (405) 478-5349
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 6122 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Double stranded
TOPOLOGY: Circular
MOLECULE TYPE: Genomic DNA
DESCRIPTION: Seq ID No. 5656483 is genomic DNA from P. putida
DESCRIPTION: strain Pg2 which contains the control region regulating
DESCRIPTION: expression of the bkd operon, bkdA1, bkdA2, bkdB and lpdV.
HYPOTHETICAL: No
ANTI-SENSE: No
FRAGMENT TYPE: No. 5656483 applicable
ORIGINAL SOURCE:
ORGANISM: Pseudomonas putida
STRAIN: Pg2
INDIVIDUAL ISOLATE: No. 5656483 applicable
DEVELOPMENTAL STAGE: No. 5656483 applicable
HAPLOTYPE: No. 5656483 applicable
TISSUE TYPE: No. 5656483 applicable
CELL TYPE: Gram negative, aerobic bacilli
CELL LINE: No. 5656483 applicable
ORGANELLER: No. 5656483 applicable
IMMEDIATE SOURCE:
LIBRARY: Genomic DNA from Pseudomonas putida
CLONE: pJRS54
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION: 35 Minutes
UNITS:
FEATURE:
NAME/KEY: Promoter plus leader
LOCATION: 1-792

IDENTIFICATION METHOD: By experiment
 OTHER INFORMATION: The promoter plus leader are responsible
 OTHER INFORMATION: for expression of the bkd operon in *Pseudomonas putida*

FEATURE:
 NAME/KEY: bkdA1, Gene encoding branched-chain keto acid
 NAME/KEY: dehydrogenase-decarboxylase E1 alpha subunit.
 LOCATION: 805-2031. Initiating methionine codon is at
 LOCATION: position 802, however mature peptide does not contain N-
 LOCATION: terminal methionine.
 IDENTIFICATION METHOD: By experiment
 OTHER INFORMATION: The E1 component of branched chain keto
 OTHER INFORMATION: acid dehydrogenase catalyzes the oxidative decarboxylation
 OTHER INFORMATION: of the keto acid substrate. E1 is composed of two subunits,
 OTHER INFORMATION: E1 alpha and E1 beta.

FEATURE:
 NAME/KEY: bkdA2, Gene encoding branched-chain keto acid
 NAME/KEY: dehydrogenase-decarboxylase E1 beta subunit.
 LOCATION: 2078-3091. Initiating methionine codon is position
 LOCATION: 2075, however mature peptide does not contain N-terminal
 LOCATION: methionine.
 IDENTIFICATION METHOD: By experiment
 OTHER INFORMATION: See description for Feature 2 above.

FEATURE:
 NAME/KEY: bkdB, Gene encoding the E2 component of branched
 NAME/KEY: chain keto acid dehydrogenase
 LOCATION: 3098-4363 Initiating methionine codon is position
 LOCATION: 3095, however mature peptide does not contain N-terminal
 LOCATION: methionine.
 IDENTIFICATION METHOD: By experiment
 OTHER INFORMATION: E2 catalyzes the transacylation of the
 OTHER INFORMATION: fatty acyl group from the lipoyl residue of E2 to coenzyme
 OTHER INFORMATION: A. E2 is the core of the complex and binds E1 and E3
 OTHER INFORMATION: components.

FEATURE:
 NAME/KEY: lpdV, Gene encoding the E3 component of branched
 NAME/KEY: chain keto acid dehydrogenase.
 LOCATION: 4369-5745. N-terminal methionine is present on
 LOCATION: mature peptide.
 IDENTIFICATION METHOD: By experiment
 OTHER INFORMATION: E3 is lpd-val, the specific lipamide
 OTHER INFORMATION: dehydrogenase which catalyzes oxidation of the
 OTHER INFORMATION: dihydrolipoyl residue of the E2 component of branched chain
 OTHER INFORMATION: keto acid dehydrogenase and the reduction of NAD+.

PUBLICATION INFORMATION:
 AUTHORS: Sokatch, John R.
 AUTHORS: McCully, Vicki
 AUTHORS: Gebrosky, Janet
 AUTHORS: Sokatch, David, J.
 TITLE: Isolation of a specific lipamide dehydrogenase
 TITLE: for a branched-chain keto acid dehydrogenase
 TITLE: from *Pseudomonas putida*
 JOURNAL: Journal of Bacteriology
 VOLUME: 148
 ISSUE:
 PAGES: 639-646
 DATE: 1981
 AUTHORS: Sokatch, John R.
 AUTHORS: McCully, Vicki
 AUTHORS: Roberts, C.M.
 TITLE: Purification of a branched-chain keto acid
 TITLE: dehydrogenase from *Pseudomonas putida*
 JOURNAL: Journal of Bacteriology
 VOLUME: 148
 ISSUE:
 PAGES: 647-652
 DATE: 1981
 AUTHORS: Sykes, Pamela
 AUTHORS: Burns, Gayle
 AUTHORS: Menard, Joan
 AUTHORS: Hatter, Kenneth
 AUTHORS: Sokatch, John R.
 TITLE: Molecular cloning of genes encoding branched-chain
 TITLE: keto acid dehydrogenase of *Pseudomonas putida*

JOURNAL: Journal of Bacteriology
 VOLUME: 169
 ISSUE:
 PAGES: 1619-1625
 DATE: 1987
 AUTHORS: Burns, Gayle
 AUTHORS: Brown, Tracy
 AUTHORS: Hatter, Kenneth
 AUTHORS: Sokatch, John R.
 TITLE: Comparison of the amino acid sequences of the
 TITLE: transacylase components of branched-chain oxoacid
 TITLE: dehydrogenase of *Pseudomonas putida*, and the pyruvate and 2-
 TITLE: oxoglutarate dehydrogenases of *Escherichia coli*
 JOURNAL: European Journal of Biochemistry
 VOLUME: 176
 ISSUE:
 PAGES: 165-169
 DATE: 1988
 AUTHORS: Burns, Gayle
 AUTHORS: Brown, Tracy
 AUTHORS: Hatter, Kenneth
 AUTHORS: Idriess, John M.
 AUTHORS: Sokatch, John R.
 TITLE: Similarity of the E1 subunits of branched-chain-
 TITLE: oxoacid dehydrogenase from *Pseudomonas putida* to the
 TITLE: corresponding subunits of mammalian branched-chain-oxoacid
 TITLE: and pyruvate dehydrogenases
 JOURNAL: European Journal of Biochemistry
 VOLUME: 176
 ISSUE:
 PAGES: 311-317
 DATE: 1988
 AUTHORS: Burns, Gayle
 AUTHORS: Brown, Tracy
 AUTHORS: Hatter, Kenneth
 AUTHORS: Sokatch, John R.
 TITLE: Sequence analysis of the lpdV gene for lipamide
 TITLE: dehydrogenase of *Pseudomonas putida*
 JOURNAL: European Journal of Biochemistry
 VOLUME: 179
 ISSUE:
 PAGES: 61-69
 DATE: 1989
 AUTHORS: Madhusudan, K.T.
 AUTHORS: Huang, G.
 AUTHORS: Burns, Gayle
 AUTHORS: Sokatch, J.R.
 TITLE: Transcriptional analysis of the promoter region of
 TITLE: the branched chain keto acid dehydrogenase operon of
 TITLE: *Pseudomonas putida*
 JOURNAL: Journal of Bacteriology
 VOLUME: 172
 ISSUE: October, 1990

Query Match 79.0%; Score 15.8; DB 1; Length 6122;
 Best Local Similarity 89.5%; Pred. No. 50;
 Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GTCCATCATATTGGCAGC 20
 DB 4258 GTTCATCATCTTGGCAGC 4240

RESULT 14
 US-08-404-381-1/C
 Sequence 1, Application US/08404381
 Patent No. 6168945
 GENERAL INFORMATION:
 APPLICANT: Sokatch, John R.
 APPLICANT: Sykes, Pamela Joy
 APPLICANT: Madhusudan, K.T.
 TITLE OF INVENTION: Genes Encoding Operon and Promoter for

TITLE OF INVENTION: Branched Chain Keto Acid Dehydrogenase of Pseudomonas putida
TITLE OF INVENTION: and Methods
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Carolyn D. Moon
ADDRESS: Dunlap, Coddling, Peterson and Lee
STREET: 9400 N. Broadway, Suite 420
CITY: Oklahoma City
STATE: Oklahoma
COUNTRY: USA
ZIP: 73114
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette 5.25 inch, 360 Kb Storage
COMPUTER: IBM AT
OPERATING SYSTEM: MS-DOS Version 3.3
SOFTWARE: Professional Write 2.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/404,381
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/603,781
FILING DATE:
APPLICATION NUMBER: 07/172,148
FILING DATE: 23-003-1988
ATTORNEY/AGENT INFORMATION:
NAME: Carolyn D. Moon
REGISTRATION NUMBER: 33,022
REFERENCE/DOCKET NUMBER: 5820.101
TELECOMMUNICATION INFORMATION:
TELEPHONE: Attorney, (405) 478-5344
TELEFAX: Attorney, (405) 478-5349
TELEX:
INFORMATION FOR SEQ. ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 6122 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Double stranded
TOPOLOGY: Circular
MOLECULE TYPE: Genomic DNA
DESCRIPTION: Seq ID No. 61689451 is genomic DNA from P. putida
DESCRIPTION: Strain PpG2 which contains the control region regulating
DESCRIPTION: expression of the bkd operon and the four structural genes
DESCRIPTION: of the bkd operon, bkdA1, bkdA2, bkdB and lpdV.
HYPOTHETICAL: No
ANTI-SENSE: No
FRAGMENT TYPE: No. 6168945 applicable
ORIGINAL SOURCE:
ORGANISM: Pseudomonas putida
STRAIN: PpG2
INDIVIDUAL ISOLATE: No. 6168945 applicable
DEVELOPMENTAL STAGE: No. 6168945 applicable
HAILOTYP: No. 6168945 applicable
TISSUE TYPE: No. 6168945 applicable
CELL TYPE: Gram negative, aerobic Bacilli
CELL LINE: No. 6168945 applicable
ORGANELLE: No. 6168945 applicable
IMMEDIATE SOURCE:
LIBRARY: Genomic DNA from Pseudomonas putida
CLONE: pURS54
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION: 35 Minutes
UNITS:
FEATURE:
NAME/KEY: Promoter plus leader
LOCATION: 1-792
IDENTIFICATION METHOD: By experiment
OTHER INFORMATION: The promoter plus leader are responsible
OTHER INFORMATION: for expression of the bkd operon in Pseudomonas putida
FEATURE:
NAME/KEY: bkdA1, Gene encoding branched-chain keto acid
NAME/KEY: dehydrogenase-decarboxylase E1 alpha subunit.

LOCATION: 805-2031. Initiating methionine codon is at
LOCATION: position 802, however mature peptide does not contain N-
LOCATION: terminal methionine.
IDENTIFICATION METHOD: By experiment
OTHER INFORMATION: The E1 component of branched chain keto
OTHER INFORMATION: acid dehydrogenase catalyzes the oxidative decarboxylation
OTHER INFORMATION: of the keto acid substrate. E1 is composed of two subunits,
OTHER INFORMATION: E1 alpha and E1 beta.
FEATURE:
NAME/KEY: bkdA2, Gene encoding branched-chain keto acid
NAME/KEY: dehydrogenase-decarboxylase E1 beta subunit.
LOCATION: 2078-3091. Initiating methionine codon is position
LOCATION: 2075, however mature peptide does not contain N-terminal
LOCATION: methionine.
IDENTIFICATION METHOD: By experiment
OTHER INFORMATION: See description for Feature 2 above.
FEATURE:
NAME/KEY: bkdB Gene encoding the E2 component of branched
NAME/KEY: chain keto acid dehydrogenase
LOCATION: 3098-4363 Initiating methionine codon is position
LOCATION: 3095, however mature peptide does not contain N-terminal
LOCATION: methionine.
IDENTIFICATION METHOD: By experiment
OTHER INFORMATION: E2 catalyzes the transacylation of the
OTHER INFORMATION: fatty acyl group from the lipoyl residue of E2 to coenzyme
OTHER INFORMATION: A. E2 is the core of the complex and binds E1 and E3
OTHER INFORMATION: components.
FEATURE:
NAME/KEY: lpdV, Gene encoding the E3 component of branched
NAME/KEY: chain keto acid dehydrogenase.
LOCATION: 4369-5745. N-terminal methionine is present on
LOCATION: mature peptide.
IDENTIFICATION METHOD: By experiment
OTHER INFORMATION: E3 is lpd-val, the specific lipamide
OTHER INFORMATION: dehydrogenase which catalyzes oxidation of the
OTHER INFORMATION: dihydrolipoyl residue of the E2 component of branched chain
OTHER INFORMATION: keto acid dehydrogenase and the reduction of NAD+.
PUBLICATION INFORMATION:
AUTHORS: Sokatch, John R.
AUTHORS: McCully, Vicki
AUTHORS: Gebrosky, Janet
AUTHORS: Sokatch, David, J.
TITLE: Isolation of a specific lipamide dehydrogenase
TITLE: for a branched-chain keto acid dehydrogenase
JOURNAL: Journal of Bacteriology
VOLUME: 148
ISSUE:
PAGES: 639-646
DATE: 1981
AUTHORS: Sokatch, John R.
AUTHORS: McCully, Vicki
AUTHORS: Roberts, C.M.
TITLE: Purification of a branched-chain keto acid
TITLE: dehydrogenase from Pseudomonas putida
JOURNAL: Journal of Bacteriology
VOLUME: 148
ISSUE:
PAGES: 647-652
DATE: 1981
AUTHORS: Sykes, Pamela
AUTHORS: Burns, Gayle
AUTHORS: Menard, Joan
AUTHORS: Hatter, Kenneth
AUTHORS: Sokatch, John R.
TITLE: Molecular cloning of genes encoding branched-chain
TITLE: keto acid dehydrogenase of Pseudomonas putida
JOURNAL: Journal of Bacteriology
VOLUME: 169
ISSUE:
PAGES: 1619-1625
DATE: 1987
AUTHORS: Burns, Gayle

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AUTHORS: Brown, Tracy
AUTHORS: Hatter, Kenneth
AUTHORS: Sokatch, John R.
TITLE: Comparison of the amino acid sequences of the
TITLE: transacylase components of branched-chain oxoacid
TITLE: dehydrogenase of Pseudomonas putida, and the pyruvate and 2-
TITLE: oxoglutarate dehydrogenases of Escherichia coli
JOURNAL: European Journal of Biochemistry
VOLUME: 176
ISSUE:
PAGES: 165-169
DATE: 1988
AUTHORS: Burns, Gayle
AUTHORS: Brown, Tracy
AUTHORS: Hatter, Kenneth
AUTHORS: Idrees, John M.
AUTHORS: Sokatch, John R.
TITLE: Similarity of the E1 subunits of branched-chain-
TITLE: oxoacid dehydrogenase from Pseudomonas putida to the
TITLE: corresponding subunits of mammalian branched-chain-oxoacid
TITLE: and pyruvate dehydrogenases
JOURNAL: European Journal of Biochemistry
VOLUME: 176
ISSUE:
PAGES: 311-317
DATE: 1988
AUTHORS: Burns, Gayle
AUTHORS: Brown, Tracy
AUTHORS: Hatter, Kenneth
AUTHORS: Sokatch, John R.
TITLE: Sequence analysis of the lpdV gene for lipamide
Patent No. 6168945
TITLE: dehydrogenase of Pseudomonas putida
JOURNAL: European Journal of Biochemistry
VOLUME: 179
ISSUE:
PAGES: 61-69
DATE: 1989
AUTHORS: Madhusudan, K.T.
AUTHORS: Huang, G.
AUTHORS: Burns, Gayle
AUTHORS: Sokatch, J.R.
TITLE: Transcriptional analysis of the promoter region of
TITLE: the branched chain keto acid dehydrogenase operon of
TITLE: Pseudomonas putida
JOURNAL: Journal of Bacteriology
VOLUME: 172
Query Match 79.0%; Score 15.8; DB 3; Length 6122;
Best Local Similarity 89.5%; Pred. No.50;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0
QY 2 GTGCATCATATTTGGCGACG 20
Db 4258 GTTCATCATCTTGCGACG 4240
RESULT 15
US-09-134-000C-2052/c
; Sequence 2052, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032796-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 2052

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; LENGTH: 582;
; TYPE: DNA
; ORGANISM: Enterococcus faecalis
US-09-134-000C-2052

Query Match          76.0%; Score 15.2; DB 4; Length 582;
Best Local Similarity 85.0%; Pred. No. 70;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1  TGTCCATCATATTGCGCAGC 20
          ||| ||| ||| ||| ||| ||| |||
DB      218 TGTTCCTCATATTGCCACG 199

Search completed: April 1, 2004, 13:06:31
Job time : 43.5128 secs

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Search completed: April 1, 2004, 13:06:31
Job time : 43.5128 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 1, 2004, 12:48:52 ; Search time 146.667 Seconds
(without alignments)
509.962 Million cell updates/sec

Title: US-09-520-538-17

Perfect score: 20
Sequence: 1 tgtccatcatattgacgacg 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 2465228 seqs, 1869859620 residues

Total number of hits satisfying chosen parameters: 4930456

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : Published Applications NA.*

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2: /cgn2_6/prodata/2/pubpna/PCR_NEW_PUB.seq:*
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10: /cgn2_6/prodata/2/pubpna/US09_PUBCOMB.seq:*
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15: /cgn2_6/prodata/2/pubpna/US10_PUBCOMB.seq:*
16: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq:*
17: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq:*
18: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the entry being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	US-09-520-538-17	Sequence 17, Appl
2	16.4	82.0	1011	US-10-238-075-1134	Sequence 1134, Ap
3	16.4	82.0	1512	US-10-282-122A-17907	Sequence 17907, A
4	16.4	82.0	1770	US-10-133-403B-1	Sequence 1, Appl
5	16.4	82.0	2768	US-09-380-773-1	Sequence 1, Appl
6	16.4	82.0	41828	US-10-238-075-1117	Sequence 1117, Ap
7	16.4	82.0	48012	US-10-085-959-251	Sequence 251, Ap
8	16	80.0	363	US-09-864-408A-903	Sequence 903, Ap
9	15.8	79.0	215	US-10-424-599-95630	Sequence 95630, A
10	15.8	79.0	296	US-09-960-352-781	Sequence 781, Ap
11	15.8	79.0	441	US-10-282-122A-20650	Sequence 20650, A
12	15.8	79.0	562	US-10-424-599-120132	Sequence 120132, A
13	15.8	79.0	1269	US-10-282-122A-31336	Sequence 31336, A
14	15.8	79.0	1287	US-09-815-242-7768	Sequence 7768, Ap
15	15.8	79.0	1287	US-10-282-122A-30181	Sequence 30181, A

C 16	15.8	79.0	1715	12	US-10-424-599-55159	Sequence 55159, A
C 17	15.8	79.0	1806	12	US-10-425-114-1679	Sequence 1679, Ap
C 18	15.8	79.0	1824	9	US-09-938-842A-97	Sequence 97, Appl
C 19	15.8	79.0	1824	11	US-09-938-842A-97	Sequence 28366, A
C 20	15.8	79.0	2054	12	US-10-425-114-28366	Sequence 161, Ap
C 21	15.8	79.0	2936	14	US-10-114-170-161	Sequence 41643, A
C 22	15.4	77.0	362	12	US-10-424-599-41643	Sequence 31, Appl
C 23	15.4	77.0	2363	14	US-10-272-665-31	Sequence 33, Appl
C 24	15.4	77.0	2363	14	US-10-272-665-31	Sequence 33, Appl
C 25	15.4	77.0	2363	14	US-10-273-321-31	Sequence 33, Appl
C 26	15.4	77.0	2363	14	US-10-272-756-31	Sequence 33, Appl
C 27	15.4	77.0	2363	14	US-10-272-756-31	Sequence 33, Appl
C 28	15.4	77.0	2363	14	US-10-273-228-31	Sequence 33, Appl
C 29	15.4	77.0	2363	15	US-10-273-228-31	Sequence 33, Appl
C 30	15.4	77.0	2363	15	US-10-273-228-31	Sequence 33, Appl
C 31	15.4	77.0	2363	15	US-10-428-354A-63	Sequence 63, Appl
C 32	15.2	76.0	215	9	US-09-960-352-781	Sequence 1411, Ap
C 33	15.2	76.0	860	10	US-09-918-995-26516	Sequence 26516, A
C 34	15.2	76.0	860	15	US-10-027-632-137631	Sequence 137631, A
C 35	15.2	76.0	862	15	US-10-027-632-135164	Sequence 135164, A
C 36	15.2	76.0	882	12	US-10-282-122A-40282	Sequence 40282, A
C 37	15.2	76.0	923	15	US-10-398-221-1423	Sequence 1423, Ap
C 38	15.2	76.0	1365	9	US-09-738-626-3027	Sequence 3027, Ap
C 39	15.2	76.0	1836	15	US-10-369-493-37526	Sequence 37526, A
C 40	15.2	76.0	1880	12	US-10-424-599-1505	Sequence 1505, Ap
C 41	15.2	76.0	1908	12	US-10-425-114-11437	Sequence 11437, A
C 42	15.2	76.0	1933	12	US-10-428-599-1507	Sequence 1507, Ap
C 43	15.2	76.0	2433	15	US-10-369-493-47329	Sequence 47329, A
C 44	15.2	76.0	3325	12	US-10-425-114-30682	Sequence 30682, A
C 45	15.2	76.0	3432	12	US-10-282-122A-29275	Sequence 29275, A

ALIGNMENTS

```
RESULT 1
US-09-520-538-17
Sequence 17, Application US/09520538
Patent No. US2002016836A1
GENERAL INFORMATION:
APPLICANT: The Regents of the University of California
APPLICANT: Wise, Ariene
TITLE OR INVENTION: Detection Of Phenols Using Engineered Bacteria
FILE REFERENCE: S-91.714
CURRENT APPLICATION NUMBER: US/09/520,538
CURRENT FILING DATE: 2000-03-08
NUMBER OF SEQ ID NOS: 17
SOFTWARE: PatentIn version 3.0
SEQ ID NO 17
LENGTH: 20
TYPE: DNA
ORGANISM: Pseudomonas sp. CF600
US-09-520-538-17
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Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Cy 1 TGTCCATCATATTGCGACG 20
Db 1 TGTCCATCATATTGCGACG 20

RESULT 2
US-10-238-075-1134/c
Sequence 1134, Application US/10238075
Publication No. US20030148324A1
GENERAL INFORMATION:
APPLICANT: I.N.S.E.R.M.
TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolated from a source of polynucleotides and of the
FILE REFERENCE: Blandine
CURRENT APPLICATION NUMBER: US/10/238,075
```

CURRENT FILING DATE: 2002-09-10
PRIOR APPLICATION NUMBER: 0003145
PRIOR FILING DATE: 2000-03-10
NUMBER OF SEQ ID NOS: 1576
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1134
LENGTH: 1011
TYPE: DNA
ORGANISM: Escherichia coli
US-10-238-075-1134

Query Match 82.0%; Score 16.4; DB 14; Length 1011;
Best Local Similarity 94.4%; Pred. No. 1.6e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TGTTCATCATATTGGCGCA 18
DB 197 TGTTCATCATATTGGCGCA 180

RESULT 3
US-10-282-122A-17907/c
Sequence 17907, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.

TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A

PRIOR FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 17907
LENGTH: 1512
TYPE: DNA
ORGANISM: Corynebacterium diphtheriae
US-10-282-122A-17907

Query Match 82.0%; Score 16.4; DB 12; Length 1512;
Best Local Similarity 94.4%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCCATCATATTGGCGACG 20
DB 1206 TCCATCATATTGGCGACG 1189

RESULT 4
US-10-133-403B-1/c
Sequence 1, Application US/10133403B
Publication No. US20030096115A1
GENERAL INFORMATION:
APPLICANT: Shinya Kozaki, Tetsuya Yano, Teiyoshi No. US20030096115A1, Tsutomu Hom

TITLE OF INVENTION: Granular Structure and Process of Production Thereof
FILE REFERENCE: 03500.016384
CURRENT FILING DATE: 2002-11-12
PRIOR APPLICATION NUMBER: US/10/133,403B
PRIOR FILING DATE: 2001-04-27
NUMBER OF SEQ ID NOS: 4
SOFTWARE: Microsoft Word
SEQ ID NO 1
LENGTH: 1770
TYPE: DNA
ORGANISM: Ralstonia eutropha TB64
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1770) Polymyxinopyrate synthase encoding sequence
US-10-133-403B-1

Query Match 82.0%; Score 16.4; DB 14; Length 1770;
Best Local Similarity 94.4%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCCATCATATTGGCGACG 20
DB 563 TCCATCATATTGGCGACG 546

RESULT 5
US-09-380-773-1/c
Sequence 1, Application US/09380773
Publication No. US20030113884A1
GENERAL INFORMATION:
APPLICANT: Heini, Silke
APPLICANT: Soling, Brigitte
APPLICANT: Gotschalk, Gerhard
APPLICANT: Steinduchel, Alexander
TITLE OF INVENTION: Methods for the Biosynthesis of Polyesters
FILE REFERENCE: MOBT136---118899.0136.NPUS00
CURRENT APPLICATION NUMBER: US/09/380,773
PRIOR FILING DATE: 1999-09-03
PRIOR APPLICATION NUMBER: PCT/US97/03994
PRIOR FILING DATE: 1997-03-03
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 2768
TYPE: DNA
ORGANISM: Ralstonia eutropha
US-09-380-773-1

Query Match 82.0%; Score 16.4; DB 10; Length 2768;
Best Local Similarity 94.4%; Pred. No. 1.9e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 TCCATCATATTGGCGACG 20
DB 1404 TCCATCATATTGGCGACG 1387

RESULT 6
US-10-238-075-1117/c
Sequence 1117, Application US/10238075

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Publication No. US20030148324A1
GENERAL INFORMATION:
APPLICANT: I.N.S.B.R.M.
TITLE OF INVENTION: Polynucleotides which are of nature B2/D+ A- and which are isolat
FILE REFERENCE: BLANDINE
CURRENT APPLICATION NUMBER: US/10/238,075
CURRENT FILING DATE: 2002-09-10
PRIOR APPLICATION NUMBER: 0003145
PRIOR FILING DATE: 2000-03-10
NUMBER OF SEQ ID NOS: 1576
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1117
LENGTH: 41828
TYPE: DNA
ORGANISM: Escherichia coli
FEATURE:
NAME/KEY: misc_feature
LOCATION: (12048)..(12048)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17019)..(17020)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17023)..(17026)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (17030)..(17030)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (29608)..(29611)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (32059)..(32059)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (32185)..(32185)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (35059)..(35059)
OTHER INFORMATION: unknown
FEATURE:
NAME/KEY: misc_feature
LOCATION: (35140)..(35140)
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LOCATION: (35144)..(35144)
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LOCATION: (37058)..(37058)
OTHER INFORMATION: unknown
FEATURE:

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NAME/KEY: misc_feature
LOCATION: (37086)..(37086)
OTHER INFORMATION: unknown
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LOCATION: (37391)..(37391)
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NAME/KEY: misc_feature
LOCATION: (41723)..(41723)
OTHER INFORMATION: unknown
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LOCATION: (41771)..(41771)
OTHER INFORMATION: unknown
US-10-238-075-1117

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Query Match      82.0%; Score 16.4; DB 14; Length 41828;
Best Local Similarity 94.4%; Pred. No. 3e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY      1 TGTCCATCATATTGGCGCA 18
Db      25139 TGTCCATCATATTGGCGCA 25122

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RESULT 7
US-10-085-959-251/C
; Sequence 251, Application US/10085959
; Publication No. US20030165870A1
GENERAL INFORMATION:
APPLICANT: Bland, Valerie D.
APPLICANT: Welch, Rodney A.
APPLICANT: Blatner, Frederick R.
APPLICANT: Bland, Valerie D.
TITLE OF INVENTION: No. US20030165870A1 Sequence of E. Coli CFT073
FILE REFERENCE: 960296.97648
CURRENT APPLICATION NUMBER: US/10/085,959
CURRENT FILING DATE: 2002-03-01
PRIOR APPLICATION NUMBER: 60/242,412
PRIOR FILING DATE: 2000-10-19
NUMBER OF SEQ ID NOS: 255
SOFTWARE: PatentIn version 3.1
SEQ ID NO 251
LENGTH: 48012
TYPE: DNA

```



```

ORGANISM: Escherichia coli
FEATURE:
NAME/KEY: CDS
LOCATION: (12004)..(20508)
OTHER INFORMATION:
NAME/KEY: CDS
LOCATION: (40330)..(44949)
OTHER INFORMATION:
NAME/KEY: misc.feature
LOCATION: (13480)..(13480)
OTHER INFORMATION: Unsure
NAME/KEY: misc.feature
LOCATION: (31038)..(31038)
OTHER INFORMATION: Unsure
NAME/KEY: misc.feature
LOCATION: (31042)..(31042)
OTHER INFORMATION: Unsure
NAME/KEY: misc.feature
LOCATION: (31770)..(31770)
OTHER INFORMATION: Unsure
NAME/KEY: misc.feature
LOCATION: (31799)..(31799)
OTHER INFORMATION: Unsure
NAME/KEY: misc.feature
LOCATION: (44922)..(44922)
OTHER INFORMATION: Unsure
US-10-085-959-251

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Query Match      82.0%; Score 16.4; DB 14; Length 48012;
Best Local Similarity 94.4%; Pred. No. 3.1e+02;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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QY 1 TGTCCATCATATTGGCGCA 18
Db 3562 TGTCCATCATATTGGCGCA 3545

```

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RESULT 8
US-09-864-408A-903/C
Sequence 903, Application US/09864408A
GENERAL INFORMATION:
APPLICANT: Leach, Martin D.
APPLICANT: Shinkets, Richard A.
TITLE OF INVENTION: No. US2004000947A1 Human Polynucleotides and Polypeptides Enc
FILE REFERENCE: 21402-032
CURRENT APPLICATION NUMBER: US/09/864,408A
PRIOR FILING DATE: 2001-05-24
PRIOR APPLICATION NUMBER: 60/206,690
NUMBER OF SEQ ID NOS: 9068
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 903
LENGTH: 363
TYPE: DNA
ORGANISM: Homo sapiens
US-09-864-408A-903

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Query Match      80.0%; Score 16; DB 11; Length 363;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 3 TCCATCATATTGGCGCA 18
Db 132 TCCATCATATTGGCGCA 117

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RESULT 9
US-10-424-599-95630
Sequence 95630, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa Thomas J

```

```

APPLICANT: Kovalic David K
APPLICANT: Zhou Yihua
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 95630
LENGTH: 215
TYPE: DNA
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_57365C.1
US-10-424-599-95630

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Query Match      79.0%; Score 15.8; DB 12; Length 215;
Best Local Similarity 89.5%; Pred. No. 2.5e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1 TGTCCATCATATTGGCGCAC 19
Db 168 TGTCCATCATATTGGCGCAC 186

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RESULT 10
US-09-960-352-781
Sequence 781, Application US/09960352
Patent No. US20020137139A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Nengbing
APPLICANT: Byatt, John C.
APPLICANT: Mathiasagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 16511.006/37-21(10298)C
CURRENT APPLICATION NUMBER: US/09/960,352
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 781
LENGTH: 296
TYPE: DNA
ORGANISM: Bos taurus
OTHER INFORMATION: Clone ID: 04-LIB3057-008-Q1-K1-A7
US-09-960-352-781

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Query Match      79.0%; Score 15.8; DB 9; Length 296;
Best Local Similarity 89.5%; Pred. No. 2.6e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 2 GTCCATCATATTGGCGCAG 20
Db 65 GTCCATCATATTGGCGCAG 83

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RESULT 11
US-10-282-122A-20650/C
Sequence 20650, Application US/10282122A
Publication No. US20040029125A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Kari
APPLICANT: Zykkind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.

```

APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 20650
LENGTH: 441
TYPE: DNA
ORGANISM: Escherichia coli
US-10-282-122A-20650

Query Match 79.0%; Score 15.8; DB 12; Length 441;
Best Local Similarity 89.5%; Pred. No. 2.8e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GTTCATCATATTGGCGAC 19
DB 436 GTTCATCATCTTGGCGAC 418

RESULT 12
US-10-424-599-120132/c
Sequence 120132, Application US/10424599
Publication No. US20040031072A1
GENERAL INFORMATION:
APPLICANT: La Rosa, Thomas J
APPLICANT: Kovalic, David K
APPLICANT: Zhou, Yihua
APPLICANT: Cao, Yongwei
TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO 120132
LENGTH: 562
TYPE: DNA
ORGANISM: Glycine max
FEATURE:
OTHER INFORMATION: Clone ID: PAT_MRT3847_79487C.1
US-10-424-599-120132

Query Match 79.0%; Score 15.8; DB 12; Length 562;
Best Local Similarity 89.5%; Pred. No. 2.9e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GTTCATCATATTGGCGAC 19
DB 291 GTTCATCATATTGGCGAC 273

RESULT 13
US-10-282-122A-31336/c
Sequence 31336, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO 31336
LENGTH: 1269
TYPE: DNA
ORGANISM: Pseudomonas putida
US-10-282-122A-31336

Query Match 79.0%; Score 15.8; DB 12; Length 1269;
Best Local Similarity 89.5%; Pred. No. 3.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 GTTCATCATATTGGCGAC 20
DB 1164 GTTCATCATCTTGGCGAC 1146

RESULT 14
US-09-815-242-7768/c
Sequence 7768, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl L.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant U.
APPLICANT: Yamamoto, Robert T.

```
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO: 7768
LENGTH: 1287
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1287)
US-09-815-242-7768
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Query Match          79.0%; Score 15.8; DB 9; Length 1287;
Best Local Similarity 89.5%; Pred. No. 3.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      2  GTCCATCATTTGGCGACG 20
Db      1179 GTTCATCATCTTGGCGACG 1161
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RESULT 15
US-10-282-122A-30181/C
Sequence 30181, Application US/10282122A
Publication No. US20040029129A1
GENERAL INFORMATION:
APPLICANT: Wang, Liangsu
APPLICANT: Zamudio, Carlos
APPLICANT: Malone, Cheryl
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl
APPLICANT: Zyskind, Judith
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John
APPLICANT: Carr, Grant
APPLICANT: Yamamoto, Robert
APPLICANT: Forsyth, R.
APPLICANT: Xu, H.
TITLE OF INVENTION: Identification of Essential Genes in Microorganisms
FILE REFERENCE: ELITRA.034A
CURRENT APPLICATION NUMBER: US/10/282,122A
CURRENT FILING DATE: 2003-02-20
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/230,335
PRIOR FILING DATE: 2000-09-06
PRIOR APPLICATION NUMBER: 60/230,347
PRIOR FILING DATE: 2000-09-09
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
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PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/267,636
PRIOR FILING DATE: 2001-02-09
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 78614
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 30181
LENGTH: 1287
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-10-282-122A-30181

Query Match          79.0%; Score 15.8; DB 12; Length 1287;
Best Local Similarity 89.5%; Pred. No. 3.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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QY      2  GTCCATCATTTGGCGACG 20
Db      1179 GTTCATCATCTTGGCGACG 1161
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Search completed: April 1, 2004, 13:13:34
Job time : 147.667 secs
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